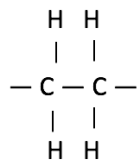


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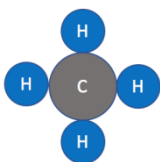
Petroleum Unit Assessment

1. The model below shows the structure of ethylene. Using the same format, create *polyethylene*, a polymer made from ethylene.

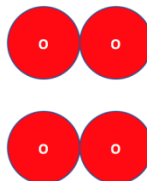


2. Ethylene is a gas and polyethylene is a plastic used for plastic bags and other packaging. Refer to your model to explain how the physical properties of polyethylene are different from ethylene.

3. The model below shows a molecule of methane, a hydrocarbon and two molecules of oxygen. Use the model to explain what happens when methane undergoes combustion (burns).



Methane



Oxygen

4. Which of the following describe(s) petroleum formation? (Choose all that apply.)
- A. When dinosaurs became extinct 65 million years ago, their bodies decayed to become petroleum
 - B. Petroleum is renewable over human lifetimes
 - C. It takes hundreds of millions of years for petroleum to form
 - D. Petroleum formed in cold places such as Canada

5. Explain why burning petroleum and other fossil fuels releases greenhouse gases into the atmosphere.

6. Is petroleum a renewable resource? Answer using CER (claims-evidence-reasoning) format.
